

AMENDMENTS TO THE CLAIMS

1-6. (Cancelled)

7. (New) A method for selecting single-walled carbon nanotubes of 1.2 nm diameter from a mixture of single-walled carbon nanotubes of various diameters, comprising irradiating the mixture of single-walled carbon nanotubes of various diameters with a light beam of a single wavelength of 620 nm under an oxidative environment.

8. (New) The method according to claim 7, wherein an oxidizing agent selected from the group consisting of hydrogen peroxide in water, nitric acid and potassium permanganate is used for oxidization of the single-walled carbon nanotubes to provide the oxidative environment.

9. (New) The method according to claim 8, wherein the oxidization is carried out at a temperature of 0°C or more and 500°C or less.

10. (New) A method for removing single-walled carbon nanotubes of 0.96 nm and 1.0 nm diameters from a mixture of single-walled carbon nanotubes of various diameters, comprising irradiating the mixture of single-walled carbon nanotubes of various diameters with a light beam of a single wavelength of 420 nm under an oxidative environment.

11. (New) The method according to claim 10, wherein an oxidizing agent selected from the group consisting of hydrogen peroxide in water, nitric acid and potassium permanganate is used for oxidization of the single-walled carbon nanotubes to provide the oxidative environment.

12. (New) The method according to claim 11, wherein the oxidization is carried out at a temperature of 0°C or more and 500°C or less.

13. (New) A method for removing single-walled carbon nanotubes of 1.0 nm and 1.1 nm diameters from a mixture of single-walled carbon nanotubes of various diameters, comprising irradiating the mixture of single-walled carbon nanotubes of various diameters with a light beam of a single wavelength of 500 nm under an oxidative environment.

14. (New) The method according to claim 13, wherein an oxidizing agent selected from the group consisting of hydrogen peroxide in water, nitric acid and potassium permanganate is used for oxidization of the single-walled carbon nanotubes to provide the oxidative environment.

15. (New) The method according to claim 14, wherein the oxidization is carried out at a temperature of 0°C or more and 500°C or less.

16. (New) A method for removing single-walled carbon nanotubes of 0.96 nm, 1.0 nm and 1.1 nm diameters from a mixture of single-walled carbon nanotubes of various diameters, comprising irradiating the mixture of single-walled carbon nanotubes of various diameters with a light beam of a single wavelength of 620 nm under an oxidative environment.

17. (New) The method according to claim 16, wherein an oxidizing agent selected from the group consisting of hydrogen peroxide in water, nitric acid and potassium permanganate is used for oxidization of the single-walled carbon nanotubes to provide the oxidative environment.

18. (New) The method according to claim 17, wherein the oxidization is carried out at a temperature of 0°C or more and 500°C or less.